JC03 Rec'd PCT/PTO 17 OCT 2009

PTO-1390 (Rev. 07-2005)
Approved for use through 3/31/2007. OMB 0651-0021
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| | TRANSMITTAL LETTER TO | | ATTORNEY'S DOCKET NUMBER | , | | | | | |
|--|--|---|---|--------|--|--|--|--|--|
| | DESIGNATED/ELECTED | | U.S. APPLICATION NEW (IT KITCHING SEP) 76 FR 1.5) | | | | | | |
| | ONCERNING A SUBMISSIO | | 10/22/10 | | | | | | |
| INTER | RNATIONAL APPLICATION NO. P92004/005275 | INTERNATIONAL FILING DATE 13 APR 2004 | PRIORITY DATE CLAIMED 15 APR 2003 | | | | | | |
| TITLE | OF INVENTION | | | r mile | | | | | |
| DYNAMIC RANDOM ACCESS MEMORY WITH A MULTIPLE-STAGE BLOCK-TAILORED REFRESH CYCLE TIME APPLICANT(S) FOR DO/EO/US | | | | | | | | | |
| H | IOSOKAWA et al. | | | | | | | | |
| Appli | cant herewith submits to the United Sta | ates Designated/Elected Office (DO/EC | /US) the following items and other information: | | | | | | |
| 1. 🖸 | This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. | | | | | | | | |
| 2. | | This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. | | | | | | | |
| 3. | This is an express request to begin nati (5), (6), (9) and (21) indicated below. | This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below. | | | | | | | |
| 4. 🛚 | The US has been elected (Article 31). | The US has been elected (Article 31). | | | | | | | |
| 5. | A copy of the International Application | n as filed (35 U.S.C. 371(c)(2)) | | | | | | | |
| | a. X is attached hereto (required | (57) | | | | | | | |
| | b. has been communicated by | b. has been communicated by the International Bureau. | | | | | | | |
| | c. is not required, as the applic | c. is not required, as the application was filed in the United States Receiving Office (RO/US). | | | | | | | |
| 6. 🛚 | An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). | | | | | | | | |
| | a. X is attached hereto. | P27 | | | | | | | |
| | b. has been previously submit | b. has been previously submitted under 35 U.S.C. 154(d)(4). | | | | | | | |
| 7. | Amendments to the claims of the Inte | Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) | | | | | | | |
| | a. X are attached hereto (requi | Y | | | | | | | |
| | b. have been communicated | | | | | | | | |
| | c. have not been made; how | c. have not been made; however, the time limit for making such amendments has NOT expired. | | | | | | | |
| | d. have not been made and v | | | | | | | | |
| 8. | An English language translation of th | An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). | | | | | | | |
| 9. 🗓 | An oath or declaration of the inventor | An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). | | | | | | | |
| 10. | An English language translation of the Article 36 (35 U.S.C. 371(c)(5)). | e annexes of the International Preliminary E | xamination Report under PCT | | | | | | |
| It | ems 11 to 20 below concern document(s | s) or information included: | * | | | | | | |
| 11. 🛚 | An Information Disclosure Statement | under 37 CFR 1.97 and 1.98. | | | | | | | |
| 12. | \overline{X} An assignment document for recording | An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. | | | | | | | |
| 13. | A preliminary amendment. | | | | | | | | |
| 14. C | An Application Data Sheet under 37 (| An Application Data Sheet under 37 CFR 1.76. | | | | | | | |
| 15. | X A substitute specification. | A substitute specification. | | | | | | | |
| 16. | A power of attorney and/or change of | A power of attorney and/or change of address letter. | | | | | | | |
| 17. | A computer-readable form of the sequence | A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825. | | | | | | | |
| 18. C | A second copy of the published Interr | A second copy of the published International Application under 35 U.S.C. 154(d)(4). | | | | | | | |
| 19. C | | ge translation of the international application | | | | | | | |
| | | | | | | | | | |

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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| U.S. APPLICA | TION NO. (if known | , see 37 CFR 1.5) 3 5 7 8 | INTERNATIONAL AF JP2004/ | | JP92003001 | |
|---|---|--------------------------------------|-----------------------------|----------------|------------------------|--------------|
| 20. Other | r items or informati | on: | | | | |
| The fol | lowing fees have b | een submitted | | | CALCULATIONS | PTO USE ONLY |
| | ic national fee (37 | | | \$300 | \$ 300.00 | |
| 22. 💢 Exar | nination fee (37 Cl | FR 1.492(c)) | | | | |
| If the written only | nion prepared by IS /US indicates all cl | \$ 200.00 | | | | |
| If the written opin IPEA/US Search fee (37 C International Sea | orch fee (37 CFR 1 nion of the ISA/US 3 indicates all clain CFR 1.445(a)(2)) honal Searching Au arch Report prepar y communicated to | \$ 400.00 | | | | |
| All Other Situation | TOTAL OF 21, 22 |) 1 00 - | | | \$900.00 | |
| sequence electroni | ee for specification be listing in complia ic medium) (37 CF s \$250 for each ac | | | | | |
| | Extra Officets | thereof (round up to a whole number) | | RATE | \$ NO | |
| $13_{-100} = /50 = 0 \times 250 Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)). | | | | | \$.00 | |
| CLAIMS | | ER FILED | NUMBER EXTRA | RATE | \$ | |
| Total claims | 1: | 3 - 20 = | 0 | × \$ 50 | \$ 0 | |
| Independent clai | ms | 3 - 3 = | 0 | x \$200 | \$ 0 | |
| MULTIPLE DEPENDENT CLA | | (if applicable) | 0 | + \$360 | \$ 0 | |
| | | | | CALCULATIONS = | \$ 900.00 | |
| Applicant cla | aims small entity st | atus. See 37 CFR | 1.27. Fees above are reduc | ed by 1/2. | | |
| | | | | SUBTOTAL = | \$ | |
| Processing fee o | of \$130.00 for furni date (37 CFR 1.49 | \$ | | | | |
| ciaimed phonty (| 2010 (07 0) 11 1.492 | \$ 900.00 | | | | |
| Fee for recording | the enclosed ass e cover sheet (37 | \$ 40.00 | | | | |
| <u> </u> | | \$ 940.00 | | | | |
| | | | | | Amount to be refunded: | \$ |
| | | | | | Amount to be charged | \$ |

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| Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038. | | | | | | |
| NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status. | | | | | | |
| SEND ALL CORRESPONDENCE TO: International Business Machines Corporation 1000 River Street, 972E Essex Junction, VT 05452 | Michael J. LeStrange Michael J. LeStrange NAME 53,207 REGISTRATION NUMBER | | | | | |